

METHOD AND SYSTEM FOR OPTIMIZED
PRE-SATURATION IN MR WITH CORRECTED
TRANSMITTER FREQUENCY OF PRE-PULSES

ABSTRACT OF THE DISCLOSURE

A method, system and computer program product is provided for optimizing pre-saturation in Magnetic Resonance Imaging. The optimization is done by setting a correct transmitter frequency of RF pre-pulses for all scan slices. A B.sub.0 magnetic field map for each scan slice of a scan volume is obtained from the B .sub.0 magnetic field distribution in the scan volume. The B.sub.0 magnetic field maps are used to calculate the median value of the B.sub.0 magnetic field over each scan slice. A first frequency of RF pre-pulses is obtained by a standard procedure. A second frequency of RF pre-pulses is then calculated for each scan slice by adding the median value of the B.sub.0 magnetic field over the scan slice to the first frequency of RF pre-pulses. Thereafter RF pre-pulses at the second frequency is applied to the scan slice.